SYSTEM FOR CONTROLLING THE TEMPERATURE OF THE INTAKE AIR IN INTERNAL COMBUSTION DIESEL ENGINES

ABSTRACT

The system is meant to heat the intake air in internal combustion Diesel engines and is based on the use of a resistor having two segments (1) and (1') joined to each other on one end (2), the segments (1) and (1') being made of different metal alloys to form a thermocouple that allows using the module determined by this resistor with a control circuit to automatically regulate the temperature of the intake air, as well as to know the flow rate entering each cylinder from a measurement of the amount of heat supplied to the air flow entering each cylinder of the engine. The system will be disposed in correspondence with the intake duct (4) of the corresponding engine cylinder (3), where the union (2) of the segments (1) and (1') which form the resistor must be located at the centre of said duct (4), where the air flow is greatest.